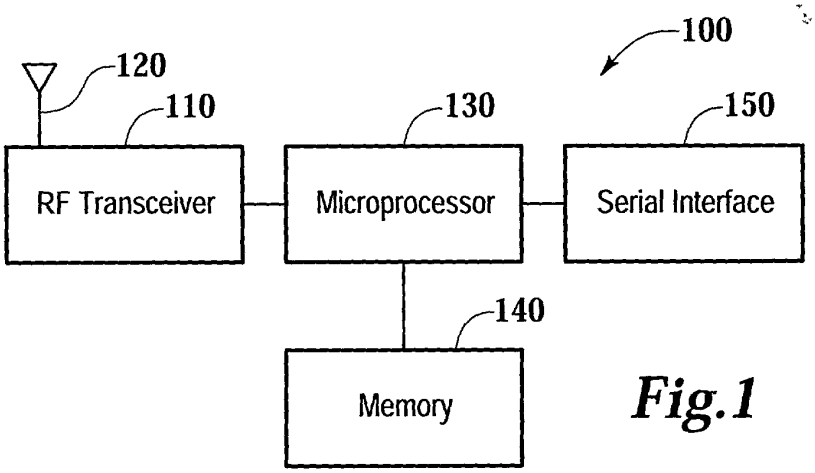
100
120
110
130
150
RF Transceiver
Microprocessor
Serial Interface
140
Memory

Fig.1

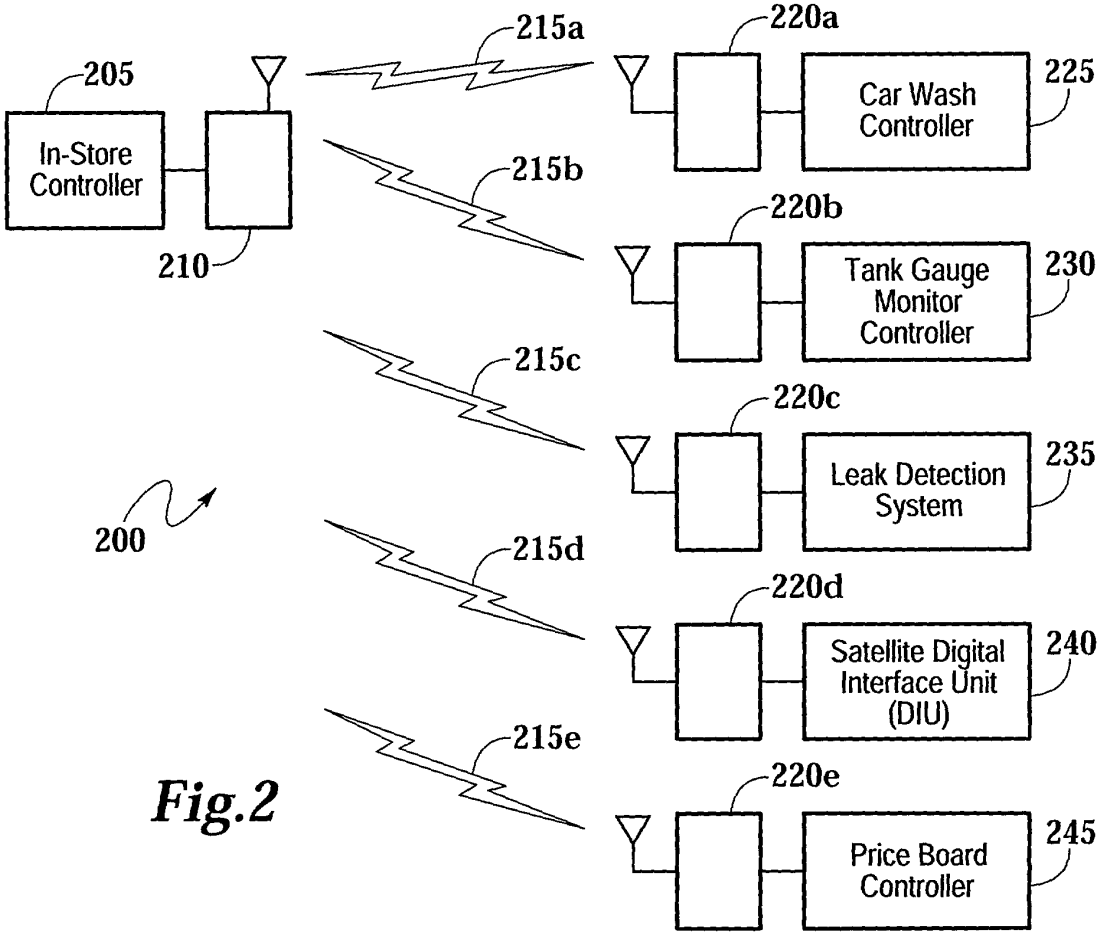
205
In-Store Controller
210
215a
215b
215c
215d
215e
200
220a
Car Wash Controller
225
220b
Tank Gauge Monitor Controller
230
220c
Leak Detection System
235
220d
Satellite Digital Interface Unit (DIU)
240
220e
Price Board Controller
245

Fig.2

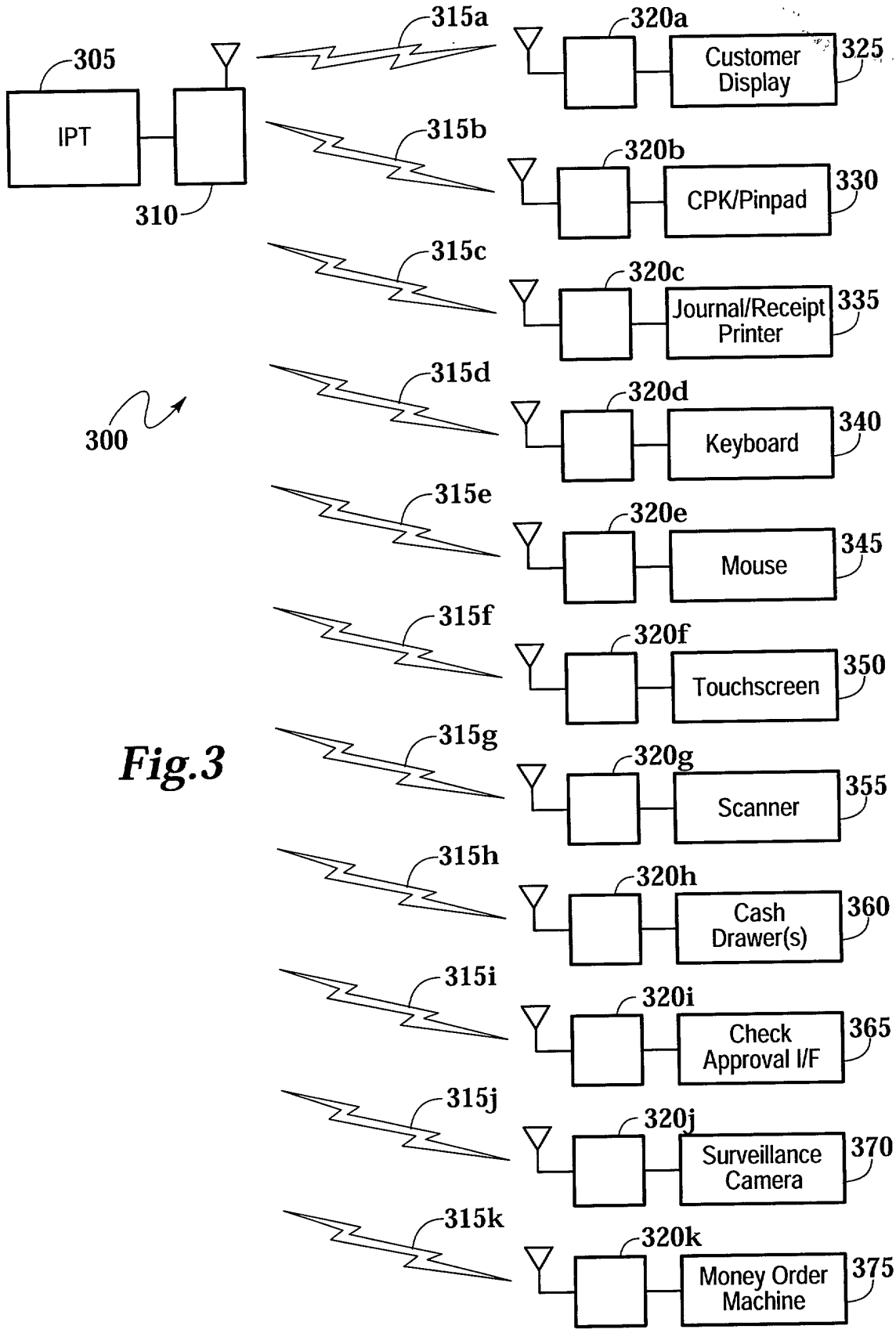
305
IPT
310
300
315a
320a
Customer Display
325
315b
320b
CPK/Pinpad
330
315c
320c
Journal/Receipt Printer
335
315d
320d
Keyboard
340
315e
320e
Mouse
345
315f
320f
Touchscreen
350
315g
320g
Scanner
355
315h
320h
Cash Drawer(s)
360
315i
320i
Check Approval I/F
365
315j
320j
Surveillance Camera
370
315k
320k
Money Order Machine
375

Fig.3

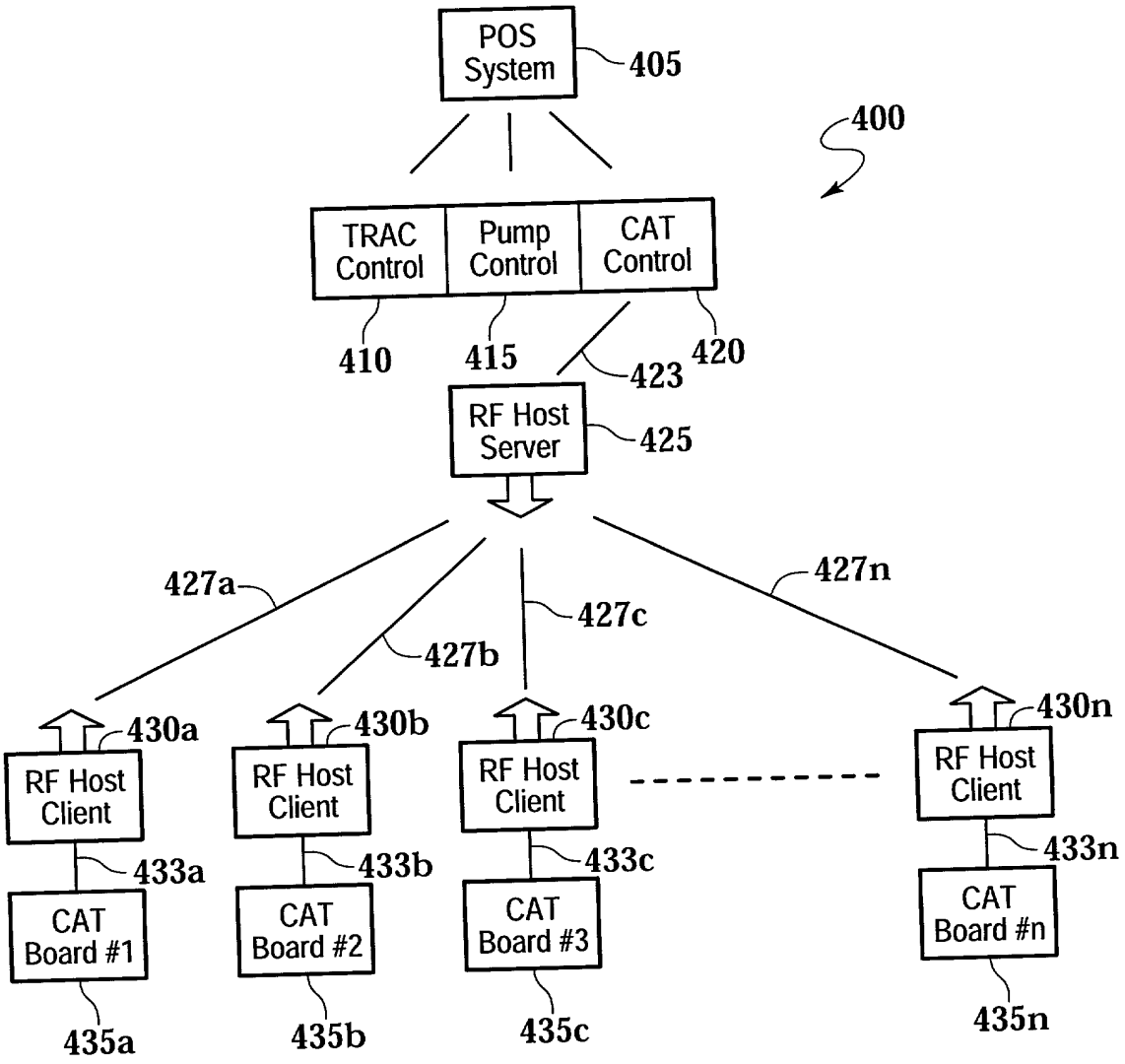
POS System
405
400
TRAC Control
Pump Control
CAT Control
410
415
423
420
RF Host Server
425
427a
427b
427c
427n
430a
430b
430c
430n
RF Host Client
RF Host Client
RF Host Client
RF Host Client
433a
433b
433c
433n
CAT Board #1
CAT Board #2
CAT Board #3
CAT Board #n
435a
435b
435c
435n

Fig.4

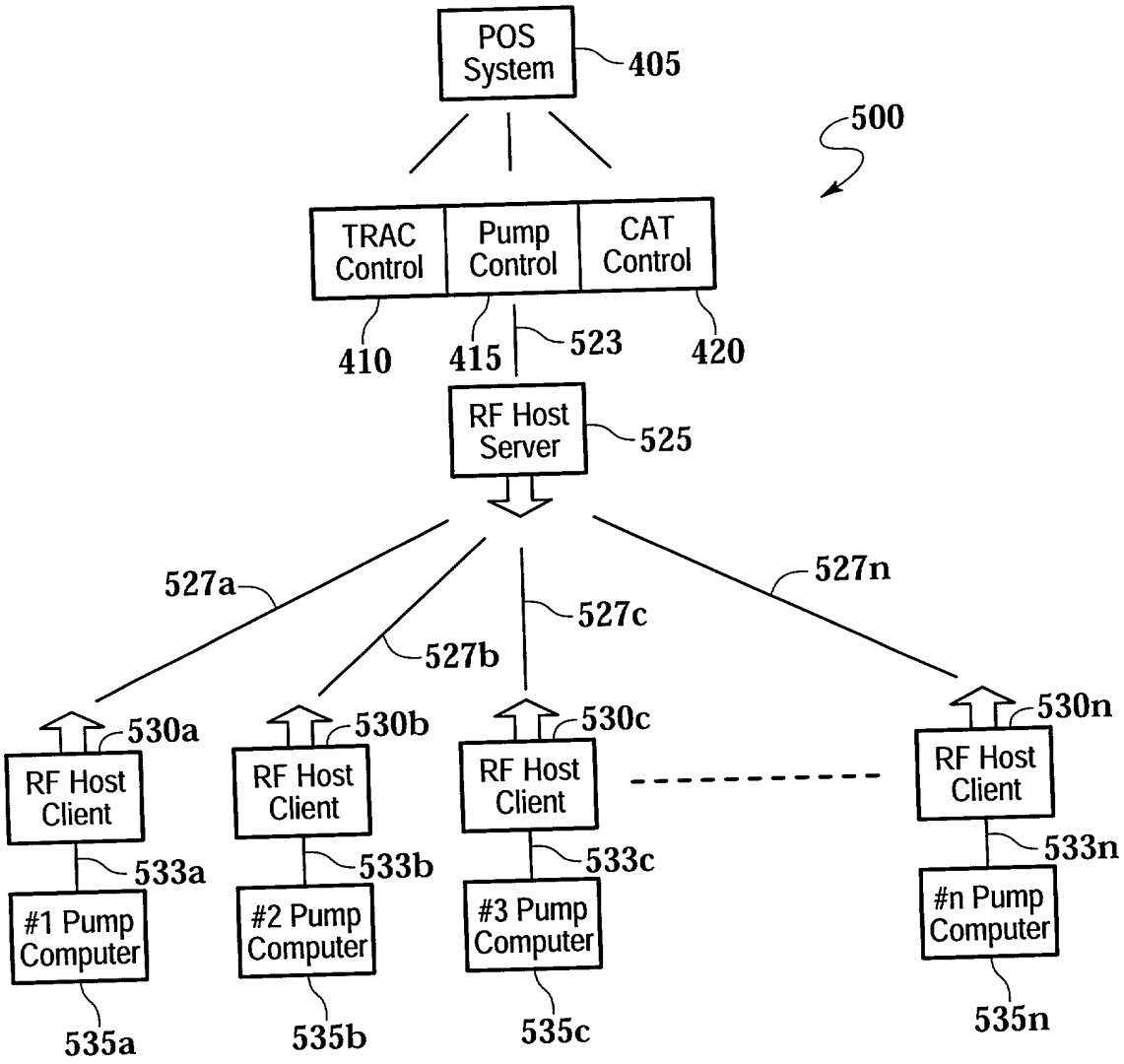
POS System
405
500
TRAC Control
Pump Control
CAT Control
410
415
523
420
RF Host Server
525
527a
527b
527c
527n
530a
530b
530c
530n
RF Host Client
RF Host Client
RF Host Client
RF Host Client
533a
533b
533c
533n
#1 Pump Computer
#2 Pump Computer
#3 Pump Computer
#n Pump Computer
535a
535b
535c
535n

Fig.5

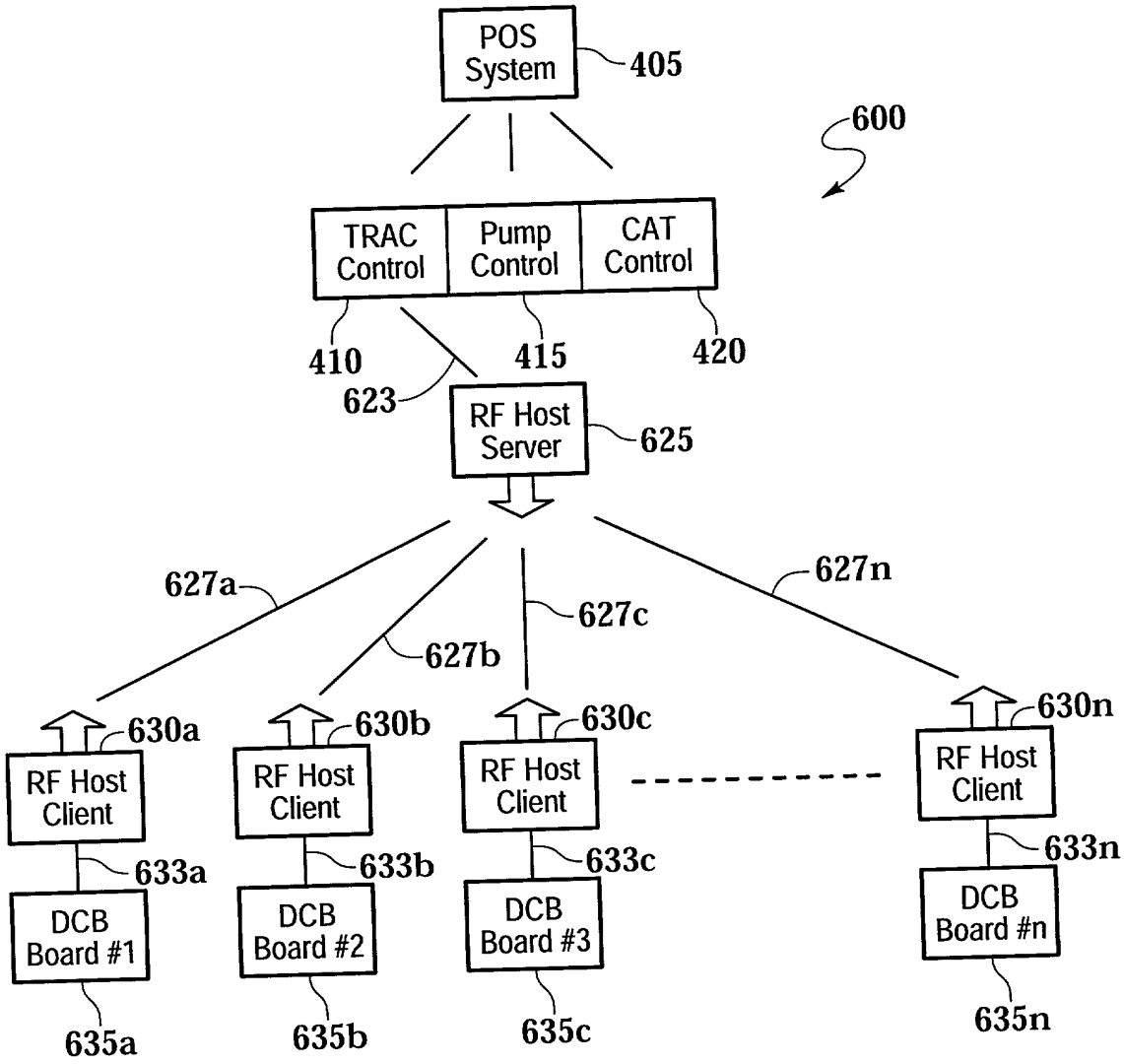
POS System
405
600
TRAC Control
Pump Control
CAT Control
410
415
420
623
RF Host Server
625
627a
627b
627c
627n
630a
630b
630c
630n
RF Host Client
RF Host Client
RF Host Client
RF Host Client
633a
633b
633c
633n
DCB Board #1
DCB Board #2
DCB Board #3
DCB Board #n
635a
635b
635c
635n

Fig.6

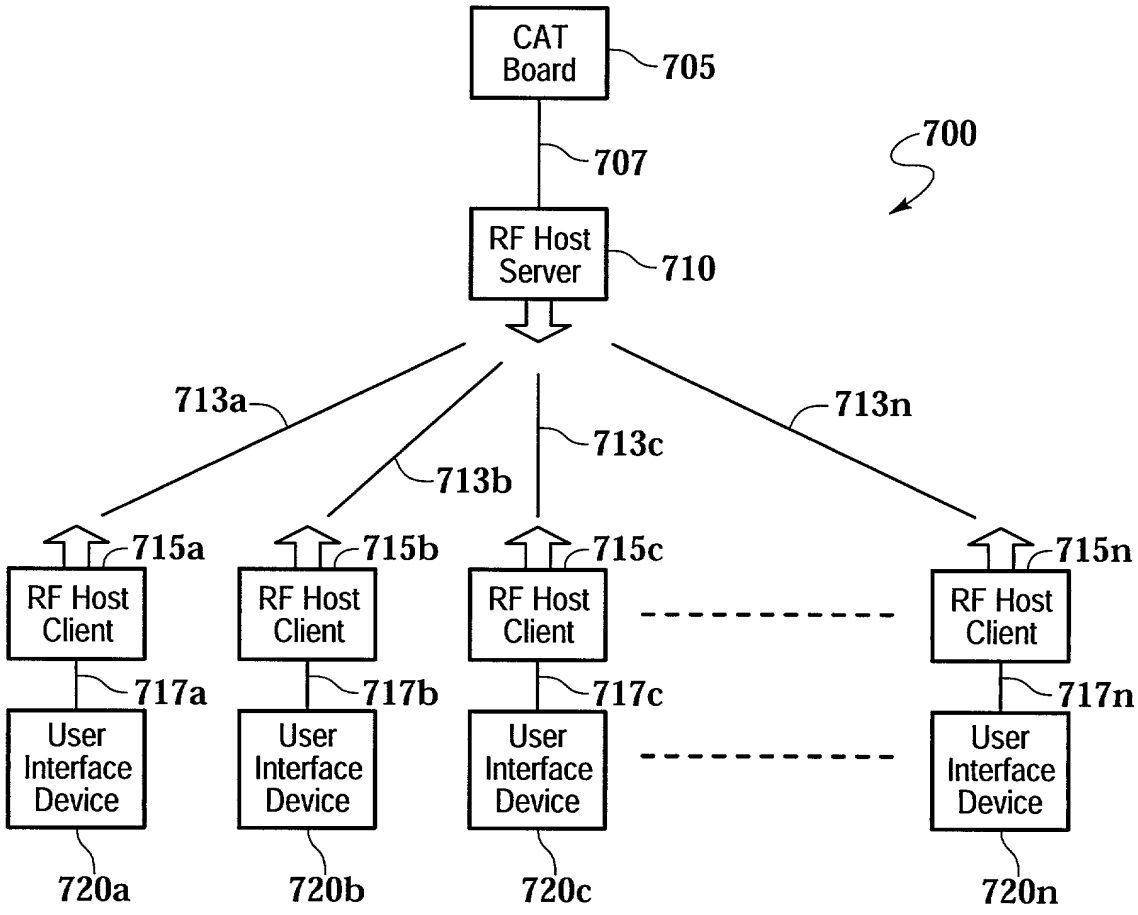
CAT Board
705
700
707
RF Host Server
710
713a
713b
713c
713n
715a
715b
715c
715n
RF Host Client
RF Host Client
RF Host Client
RF Host Client
717a
717b
717c
717n
User Interface Device
User Interface Device
User Interface Device
User Interface Device
720a
720b
720c
720n

Fig.7

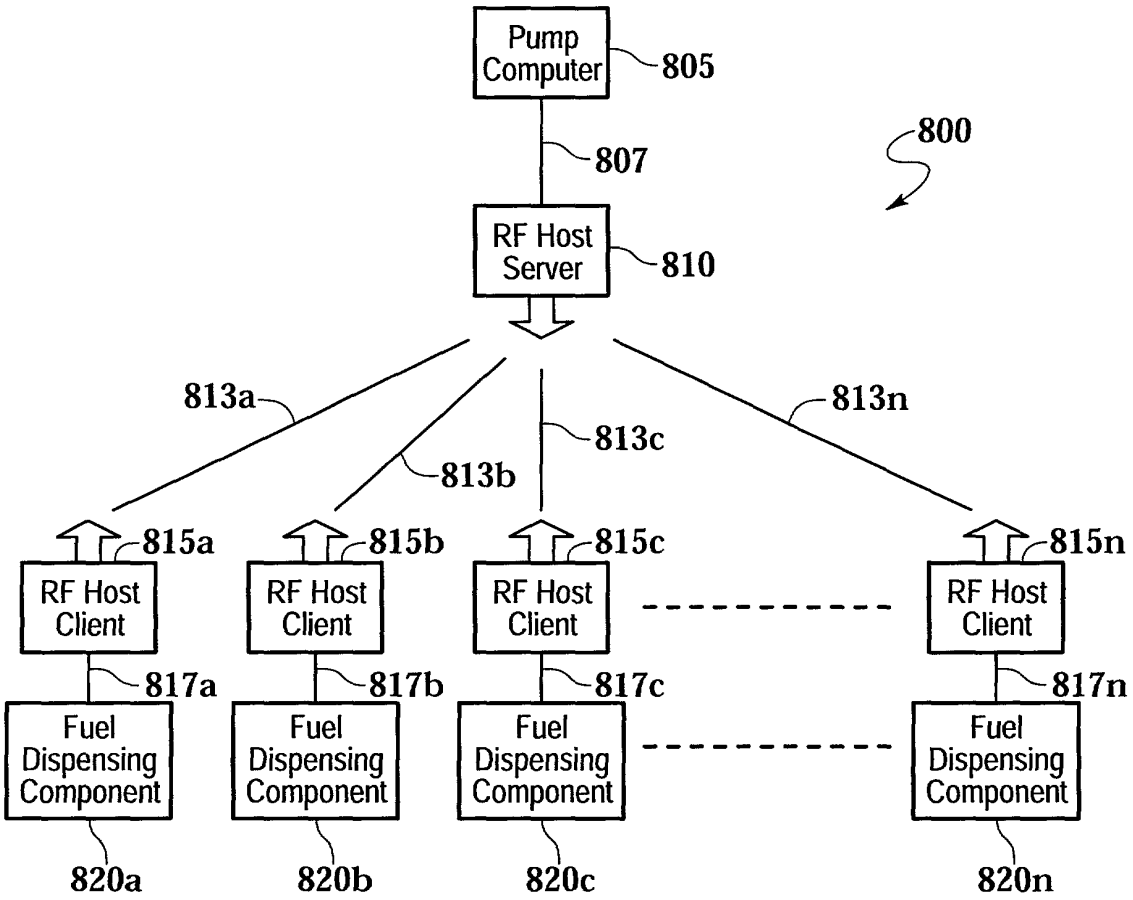
Pump Computer
805
800
807
RF Host Server
810
813a
813b
813c
813n
815a
815b
815c
815n
RF Host Client
RF Host Client
RF Host Client
RF Host Client
817a
817b
817c
817n
Fuel Dispensing Component
Fuel Dispensing Component
Fuel Dispensing Component
Fuel Dispensing Component
820a
820b
820c
820n

Fig.8

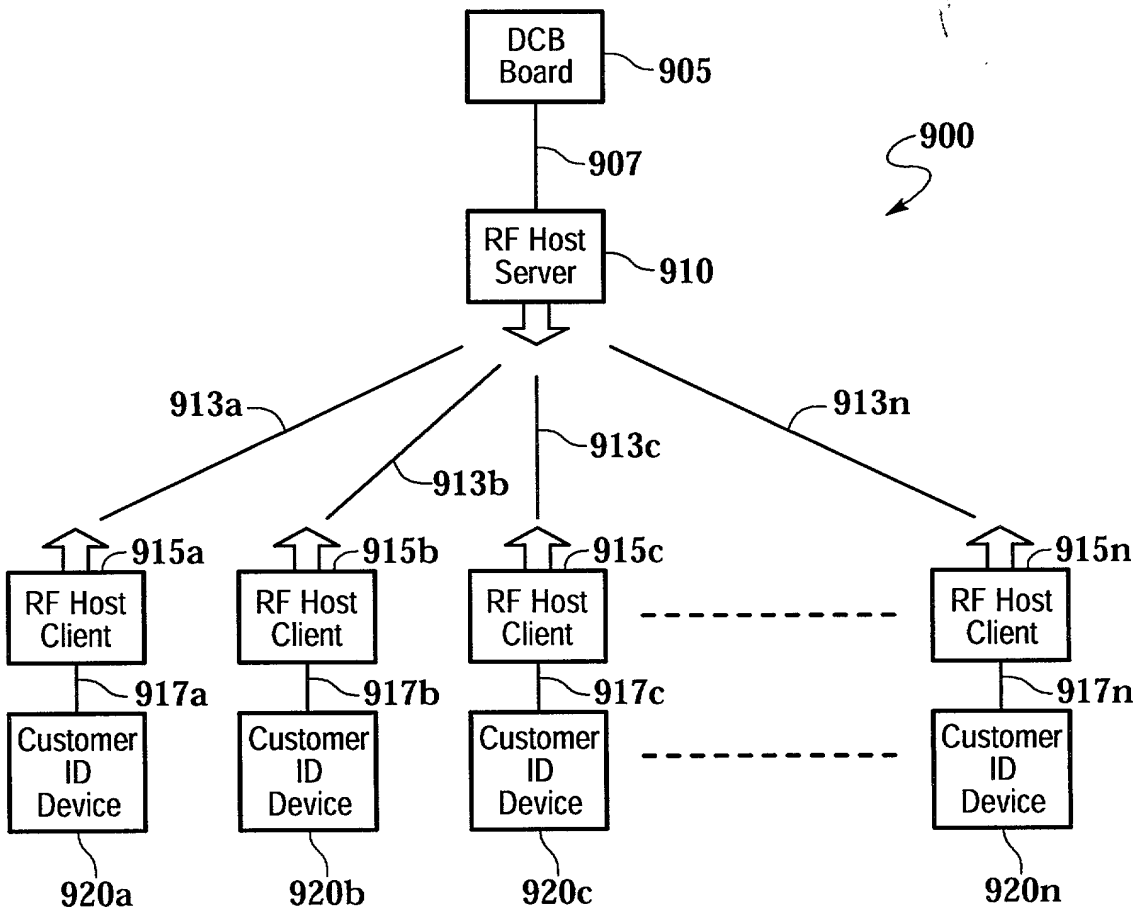
DCB Board
905
900
907
RF Host Server
910
913a
913b
913c
913n
915a
915b
915c
915n
RF Host Client
RF Host Client
RF Host Client
RF Host Client
917a
917b
917c
917n
Customer ID Device
Customer ID Device
Customer ID Device
Customer ID Device
920a
920b
920c
920n

Fig.9

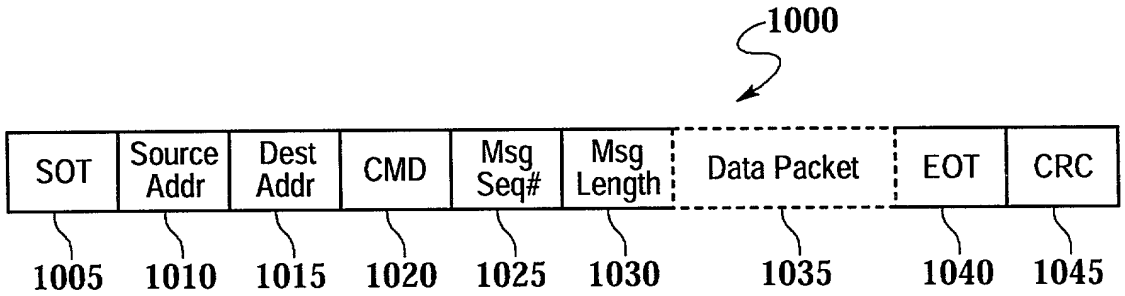
1000
SOT
Source Addr
Dest Addr
CMD
Msg Seq#
Msg Length
Data Packet
EOT
CRC
1005
1010
1015
1020
1025
1030
1035
1040
1045

Fig.10